

Streptopogon rzedowskii sp. nov.

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Distinquitur ex multis clavatis gemmis haurientibus et ad costam exsertam, et ad costae dorsum, et, raro, ad caules: etiam ex foliarum cellulis quae multas papillas habent: denique ex longis levibus cellulis marginis.

Stems cylindrical, without a differentiated center, sometimes with axillary hairs. Leaves oblong, 2.5 x 1.0 mm. shortly decurrent. Costa prominent, with 2 stereid bands and 3-4 large guide cells, percurrent to excurrent, 75-85  $\mu$  at base, arista sometimes about as long as the lamina. Margin of smooth, elongated cells, subdenticulate (rarely serrate) in the upper half. Cells in upper lamina 20-22  $\mu$  x 15-22  $\mu$ , in mid-lamina 17-20 - 7.5-10  $\mu$  (both pluri-papillose with C-shaped papillae), Basal cells hyaline, lax, hexagonal, 55-70 x 10-22  $\mu$ , with smooth walls. Rhizoids smooth. Gemmae brown, of 6-10 cells, smooth, attached to the arista, the back of the costa, or sometimes to the stem by 1-2 hyaline cells leaving papilla-like fragments when the gemmae break loose. Sporophyte unknown.

TYPE: Sobre humus, lugares sombreados y húmedos. Bosque de Pinus hartwegii. 20 km. E. de Amecameca, 19°15' N, 98°37' W. Mexico. A Cárdenas 3943, Noviembre 21, 1984 (type, MEXU; isotype, TENN).

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Fig. 1-7 Streptopogon rzedowskii Cardenas. 1. Habit, moist. 2. Propaguliferous leaves. 3. Vegetative leaves. 4. Median leaf cells. 5. Upper leaf cells. 6. Cross-section of leaf. 7. Gemmae. Figs. 1-3, scale = 1 mm. Figs. 4-7, scale = 0.1 mm.

